| Ind | lex of CI | aims |
|-----|-----------|------|
|     |           |      |

| Application/Control N | 0. |
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Applicant(s)/Patent under Reexamination GROEN ET AL.

10/661,016

Examiner

Art Unit

Vineeta S. Panwalkar

2611

| 7 | Rejected |
|---|----------|
| _ | Allowed  |

| - | (Through numeral)<br>Cancelled |
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| N | Non-Elected  |
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| ı | Interference |

| A | Appeal   |
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| 0 | Objected |

|          |          | _        |                 |          |                |   | ' ·          |            |                |          | , , |           |           |                 |   |          |              |              |                |          |          |    |
|----------|----------|----------|-----------------|----------|----------------|---|--------------|------------|----------------|----------|-----|-----------|-----------|-----------------|---|----------|--------------|--------------|----------------|----------|----------|----|
| Cla      | im       | _        | <del>, ,</del>  | _        | (              | Dat   | e            |            |                |          |     | Cla       | aim       | <u>L</u> ,      |   |          | 1            | Dat          | <u>e</u>       | _        |          | ,_ |
| Final    | Original | 3/26/07  |                 |          |                |   |              |            |                |          |     | Final     | Original  |                 |   |          |              |              |                |          | -        |    |
|          | 1        | 1        |                 |          |                |   |              |            |                |          | ]   |           | 51        |                 |   |          |              |              |                |          |          | I  |
|          | 2        | 1        |                 |          |                |   |              |            |                |          | ] . |           | 52        |                 |   |          |              |              |                |          |          | Γ  |
|          | 3        | 1        |                 |          |                |   | I            |            |                |          | ]   |           | 53        |                 |   |          |              |              |                |          |          | Γ  |
|          | 4        | 1        |                 |          |                |   |              |            |                |          |     |           | 54        |                 |   |          |              |              |                |          |          | Γ  |
|          | 5        | 1        |                 |          |                | Γ   |              |            |                |          |     |           | 55        |                 |   |          |              |              |                |          |          | Γ  |
|          | 6        | 0        |                 |          |                |   |              |            |                |          |     |           | 56        |                 |   |          |              |              |                |          |          | Γ  |
|          | 7        | 0        |                 |          |                |   |              |            |                |          | ]   |           | 57        |                 |   |          |              |              |                |          |          | Γ  |
|          | 8        | 1        |                 |          |                |   |              |            |                |          |     |           | 58        |                 |   |          |              |              |                |          |          | Γ  |
|          | 9        | 1        |                 |          |                |   |              | ·          |                |          |     |           | 59        |                 |   |          |              |              |                |          |          | Γ  |
|          | 10       | 0        |                 |          |                |   |              |            |                |          | ]   |           | 60        |                 |   |          |              |              |                |          |          | Γ  |
|          | 11       | 0        |                 |          |                |   |              |            |                |          | ]   |           | 61        |                 |   |          |              |              |                |          |          | Γ  |
|          | 12       | 1        |                 |          |                |   |              |            |                |          |     |           | 62        |                 |   |          |              |              |                |          |          | Γ  |
|          | 13       | 0        |                 |          |                |   |              |            |                |          | ]   |           | 63        |                 |   |          |              |              |                |          |          | Γ  |
|          | 14       | 1        |                 |          |                |   |              |            |                |          |     |           | 64        |                 |   |          |              |              |                |          |          | Γ  |
|          | 15       | 1        | •               |          |                |   |              |            |                |          | ]   |           | 65        |                 |   |          |              |              |                |          |          |    |
|          | 16       | 1        |                 |          |                |   |              |            |                |          |     |           | 66        |                 |   |          |              |              |                |          |          | Ι  |
|          | 17       | 0        |                 |          |                |   |              |            |                |          |     |           | 67        |                 |   |          |              |              |                |          |          | I  |
|          | 18       | 0        |                 |          |                |   |              |            |                |          | ] ; |           | 68        |                 |   |          |              |              |                |          |          | Γ  |
|          | 19       | 1        |                 |          |                |   |              |            |                |          | ] : |           | 69        |                 |   |          |              |              |                |          |          | I  |
|          | 20       | 1        |                 |          |                | <u>L.</u>   | <u> </u>     |            |                |          | ] ; |           | 70        |                 |   |          |              |              |                |          |          | L  |
| L        | 21       | 1        |                 |          |                |   |              |            |                |          | ]   |           | 71        |                 |   |          |              |              |                |          | L        | L  |
|          | 22       | 0        |                 |          |                | <u> </u>  |              |            |                |          | ]   |           | 72        | Ш               |   |          |              |              |                | L        | L        | L  |
|          | 23       | 1        |                 |          | L              | L   |              |            |                |          | ] : |           | 73        |                 |   |          |              |              |                |          |          | L  |
|          | 24       | 1        |                 |          | L              | 乚   |              | L          |                | <u> </u> |     |           | 74        |                 |   |          |              |              |                |          | L        | L  |
|          | 25       | 0        |                 |          |                |   |              |            | L              |          | ]   |           | 75        | Ш               |   |          |              |              | L              | L        | L        | L  |
|          | 26       | 1        | L               |          | L              | L   |              | L          |                |          | [ ] |           | 76        | Ш               |   |          |              |              | L              | _        |          | L  |
|          | 27       | 0        |                 |          |                | <u> </u>  |              |            |                |          |     |           | 77        | Ш               |   |          |              | L            | <u> </u>       |          | L        | L  |
|          | 28       | 1        |                 |          |                | 乚   |              | L          |                | L        |     |           | 78        |                 |   |          | L            | L.           |                |          | L        | L  |
|          | 29       | 1        |                 |          | <u> </u>       | <u> </u>  | <u> </u>     |            | _              |          | [   |           | 79        |                 |   |          |              |              | <u> </u>       | _        | L        | L  |
|          | 30       | V        | Ш               |          | _              | L   |              |            |                |          |     |           | 80        |                 |   |          | L            | L            | L              |          | L        | L  |
|          | 31       | 1        | Ш               |          | L              | $ldsymbol{ld}}}}}}$ |              |            |                | L        |     |           | 81        | Ш               |   |          |              |              | 匚              | <u></u>  | L        | L  |
| <u></u>  | 32       | 1        | Щ               |          | L              | <u> </u>  | _            | _          |                |          |     |           | 82        |                 |   |          | 辶            | L            | _              |          | ᆫ        | L  |
| <u></u>  | 33       | 1        |                 |          | ļ              | <u> </u>  | <u></u>      | _          | _              | <u></u>  |     |           | 83        |                 |   |          |              |              | L              | _        | ᆫ        | L  |
| ļ        | 34       | 0        |                 |          | <u> </u>       | <u> </u>  |              | L_         | Ļ              | <u>_</u> |     |           | 84        |                 |   |          |              | _            | L              | _        | <u> </u> | L  |
|          | 35       | 0        |                 | _        | L              | <u> </u>  | _            | <u> </u>   | <u> </u>       | _        |     |           | 85        |                 |   |          | _            |              | _              | L_       | L        | Ļ  |
|          | 36       | ٧        |                 |          | <u> </u>       | ļ.,   |              | L_         | ļ.,            | <u>_</u> |     |           | 86        |                 |   |          | <u> </u>     |              | _              | _        | L        | Ļ  |
|          | 37       | 1        |                 | _        | _              |   | _            | <u> </u>   | _              |          |     |           | 87        | Щ               |   |          | _            | _            | _              | <u> </u> | <u> </u> | Ļ  |
|          | 38       | 0        |                 | _        | <u> </u>       | ⊢   | $oxed{oxed}$ | <u> </u>   | <u> </u>       | _        |     |           | 88        | $\sqcup$        |   |          | ļ            | _            | <u> </u>       | <u> </u> | <u> </u> | Ļ  |
| <b></b>  | 39       | 0        | ļļ              | ļ        | <b>!</b>       | ⊢-  | Ь            | <u> </u>   | ⊢              | <u> </u> |     |           | 89        | $\sqcup$        | _ |          | <u> </u>     | -            | <del>  .</del> | <b>├</b> | ┞-       | 1  |
| <u> </u> | 40       | 1        | Ш               | _        | _              | _   | _            | <u> </u>   | lacksquare     | ldash    |     | <u></u> . | 90        | $\sqcup$        |   |          | <b>!</b>     | _            | <u> </u>       | <u> </u> | $\vdash$ | 1  |
| <b></b>  | 41       | 1        |                 | <u> </u> | ļ              | <u> </u>  | <u> </u>     | <u> </u>   | $\vdash$       | <u> </u> |     |           | 91        | Н               | _ | _        | <b>!</b>     | _            | <u> </u>       | <u> </u> | $\vdash$ | L  |
| <u> </u> | 42       | 1        | Щ               | <u> </u> | <b>!</b>       | ⊢-  | <del> </del> | Ь          | <del> </del> _ | ldash    |     |           | 92        | $\vdash$        |   | <u> </u> | <u> </u>     | 1            | -              | ├_       | <u> </u> | 1  |
| <u> </u> | 43       | Ō        |                 | _        | <b>!</b>       | <u> </u>  | <b>!</b>     | <b> </b> _ | <b> </b>       | <u> </u> |     |           | 93        | $\vdash$        |   | _        | <u> </u>     | 1_           | L.             | <u> </u> | <u> </u> | ļ. |
|          | 44       | 1        |                 | _        | <b> </b>       | <u> </u>  | <u> </u>     | <u> </u>   | <b> </b>       | <u> </u> |     |           | 94        | $\vdash \vdash$ |   |          | _            | <u> </u>     | L-             | <b> </b> | ⊢        | 1  |
| <u></u>  | 45       | 1        | Щ               | -        | <del> </del> _ | <u> </u>  | ⊢            | <u> </u>   | ├              | <u> </u> |     | <u> </u>  | 95        | $\vdash$        |   |          | _            | <del> </del> | <u> </u>       | ļ        | <u> </u> | 1  |
| <u> </u> | 46       | 0        | $\vdash \vdash$ | <u> </u> | -              | <u> </u>  | ├—           | ⊢          | ⊢              | <u> </u> |     | <u> </u>  | 96        | $\vdash \vdash$ |   | _        | -            | <u> </u>     | <u> </u>       | <u> </u> | $\vdash$ | 1  |
| <u> </u> | 47       | 7        | $\vdash$        | <u> </u> | -              | -   | ⊢            | ├          | ⊢              | ├-       |     | <u> </u>  | 97        | $\vdash$        |   |          | $\vdash$     | <u> </u>     | <del> </del>   | <u> </u> | ⊢        | +  |
| $\vdash$ | 48       | 0        | Ш               | <u> </u> | <u> </u>       | <u> </u>  | ⊢            | ⊢          | ⊢              | <u> </u> |     | <u> </u>  | 98        | ┝┤              |   | _        | <del> </del> | $\vdash$     | -              | <u> </u> | $\vdash$ | +  |
| $\vdash$ | 49<br>50 | $\vdash$ | $\vdash$        | <u> </u> | $\vdash$       |   | ⊢            |            | ├-             | $\vdash$ |     | <b></b>   | 99<br>100 | $\vdash \vdash$ |   | <u> </u> | <u> </u>     | <del> </del> | $\vdash$       | ├-       | -        | +  |
|          | 50       | L        | لـــا           |          | Ц_             | L_  | <u> </u>     | <u> </u>   | Ц              | <u> </u> | j   | L         | 100       | Ш               |   | L        | 1            | <u> </u>     | Щ              | <u> </u> | <u> </u> | L  |

| Cla         | aim      |          |          |          | - [ | Date         |          |          | -        |          |
|-------------|----------|----------|----------|----------|-----|--------------|----------|----------|----------|----------|
|             |          |          |          |          |     | Γ_           |          |          |          |          |
| Final       | Original |          |          |          |     |              |          |          |          |          |
|             | 51       |          |          |          |     |              |          |          |          |          |
|             | 52       |          |          |          |     |              |          |          |          |          |
|             | 53       |          |          |          |     |              |          |          |          |          |
|             | 54<br>55 |          |          |          |     |              |          |          |          |          |
|             | 55       |          |          |          |     |              |          |          |          |          |
|             | 56       |          |          |          |     | L            |          |          |          | L        |
|             | 57       |          |          |          |     | _            |          |          |          |          |
|             | 58       |          |          |          | _   |              |          | _        |          | _        |
| -           | 59       |          |          |          |     |              |          |          | <u> </u> |          |
| <u> </u>    | 60<br>61 |          |          |          |     | <u> </u>     | _        | _        | _        | -        |
| -           |          | _        |          |          |     |              | _        |          |          |          |
| <u> </u>    | 62<br>63 | _        | <u> </u> | -        | _   | <del> </del> |          |          |          | _        |
| <del></del> | 64       |          | -        | -        | -   | $\vdash$     |          | $\vdash$ |          | $\vdash$ |
|             | 65       | $\vdash$ | -        | H        |     | <u> </u>     | -        |          | H        | $\vdash$ |
| -           | 66       |          |          | Н        |     | $\vdash$     | Н        |          |          | $\vdash$ |
|             | 67       |          |          | _        | _   | $\vdash$     |          | _        | <u> </u> |          |
|             | 68       | _        |          |          |     | $\vdash$     |          |          |          |          |
|             | 69       |          |          |          |     |              |          |          |          |          |
|             | 70       |          |          | П        |     |              |          |          |          |          |
|             | 71       |          |          |          |     |              |          |          |          |          |
|             | 72       |          |          |          |     |              |          |          |          |          |
|             | 73       |          |          | L        |     |              |          |          |          |          |
| <u> </u>    | 74       | _        |          | <u>L</u> |     |              |          |          |          |          |
|             | 75       | <u> </u> |          | <u> </u> |     | <u> </u>     | <u> </u> |          | <u> </u> | <u> </u> |
|             | 76<br>77 |          |          | <u> </u> | _   | <u> </u>     | <u> </u> | _        | ļ        | <u> </u> |
| -           | 78       |          |          | _        |     | <u> </u>     |          |          | <u> </u> |          |
|             | 79       |          | _        | -        |     | <del> </del> | $\vdash$ |          | $\vdash$ |          |
| -           | 80       |          | -        | -        | _   | ├            | $\vdash$ |          | $\vdash$ |          |
|             | 81       |          | -        | ┢        | _   |              |          |          |          |          |
|             | 82       |          |          |          | _   | _            |          |          | _        | _        |
|             | 83       |          |          |          |     | Г            |          |          |          |          |
|             | 84       |          |          |          |     |              |          |          |          |          |
|             | 85       |          |          |          |     |              |          |          |          |          |
|             | 86       |          |          |          |     |              |          |          |          |          |
| <u> </u>    | 87       |          | Ш        | L        |     |              |          |          | igsqcup  | L        |
|             | 88       |          |          | L_       |     | <u> </u>     | <b> </b> |          | <u> </u> | <u> </u> |
|             | 89       | _        | <u> </u> |          | _   | <u> </u>     | <u> </u> |          | <u> </u> | <u>_</u> |
| -           | 90       | <u> </u> |          | H        | -   | _            |          | <u> </u> | $\vdash$ | $\vdash$ |
|             | 91<br>92 | $\vdash$ |          | H        | _   | _            | -        |          | $\vdash$ | -        |
| -           | 93       | _        |          | Η-       | -   | $\vdash$     |          | -        |          | <u> </u> |
|             | 94       | -        |          |          | -   |              | -        |          | -        | $\vdash$ |
| -           | 95       |          | -        | $\vdash$ | -   | $\vdash$     | -        |          | $\vdash$ | <u> </u> |
|             | 96       |          |          |          | _   | $\vdash$     |          |          |          | $\vdash$ |
| <b>—</b>    | 97       | Ι        |          | Н        | -   | $\vdash$     | Н        | $\vdash$ | Г        | $\vdash$ |
|             | 98       | Г        |          |          |     | Г            | Г        |          |          | Г        |
|             | 99       |          |          |          |     |              |          |          |          |          |
|             | 100      |          |          |          |     |              |          |          | Г        |          |

| Cla             | aim               | Date           |                    |          |              |  |                           |                                     |  |                 |  |  |
|-----------------|-------------------|----------------|--------------------|----------|--------------|--|---------------------------|-------------------------------------|--|-----------------|--|--|
|                 |                   |                |                    |          |              |  |                           |                                     |  |                 |  |  |
| <u>a</u>        | Original          |                |                    |          |              |  |                           |                                     |  |                 |  |  |
| Final           | rig               |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 | 0                 |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 | 101               |                |                    |          |              |  |                           | -                                   | -  | Н               |  |  |
|                 | 101<br>102        |                | -                  | -        | _            | _  | _                         | _                                   | -  | Н               |  |  |
|                 | 103               |                |                    | $\vdash$ | _            | _  | _                         | -                                   | $\vdash$   | $\vdash$        |  |  |
|                 | 103               | $\vdash$       | $\vdash$           | <u> </u> | _            | _  |                           |                                     | $\vdash$   | Н               |  |  |
|                 | 104<br>105        |                | $\vdash$           |          | _            | -  | -                         | -                                   | -  | $\vdash$        |  |  |
|                 | 106               | _              | _                  | $\vdash$ | _            |  | _                         | _                                   | ┝  | $\vdash$        |  |  |
|                 | 107               |                | $\vdash$           | $\vdash$ |              |  | _                         | _                                   | ⊢  | $\vdash$        |  |  |
|                 | 107               | _              | -                  | -        |              |  |                           |                                     | H  | Н               |  |  |
|                 | 100               | _              | -                  |          |              |  | _                         | $\vdash$                            | H  | Н               |  |  |
|                 | 109<br>110        | _              | <u> </u>           | -        |              |  |                           |                                     | $\vdash$   | Н               |  |  |
|                 | 110               |                | _                  |          |              |  | _                         | _                                   | _  | Н               |  |  |
| $\vdash$        | 111               | Н              | $\vdash$           | $\vdash$ | <u> </u>     | <u> </u>   | $\vdash$                  | _                                   | <u> </u>   | Н               |  |  |
| $\vdash \vdash$ | 112<br>113        | $\vdash$       | <u> </u>           | $\vdash$ | $\vdash$     | <u> </u>   | H                         | $\vdash$                            | <u> </u>   | Щ               |  |  |
|                 | 113               | <u> </u>       | <u> </u>           | $\vdash$ | Ш            | Ь.   | $ldsymbol{ldsymbol{eta}}$ | ļ                                   |  | Щ               |  |  |
| $oxed{oxed}$    | 114               | Ш              | L                  |          |              | Ш  | Щ                         | Щ                                   | <u> </u>   | Щ               |  |  |
| $oxed{oxed}$    | 115               | Ш              | <u> </u>           | L_       | L            | Ш  |                           | ᆫ                                   | <u> </u>   | Щ               |  |  |
| Ш               | 115<br>116<br>117 | Ш              | <u> </u>           | Ш        | Ш            | Ш  | Ц.                        | L_                                  | L  |                 |  |  |
|                 | 117               |                | L_                 |          |              |  | <u> </u>                  |                                     |  |                 |  |  |
|                 | 118<br>119        |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 | 119               |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 | 120<br>121        |                |                    |          |              |  |                           |                                     | Γ  |                 |  |  |
|                 | 121               |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 | 122               |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 | 123               |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 | 123<br>124<br>125 | -              |                    |          |              | Г  |                           |                                     | Г  |                 |  |  |
|                 | 125               |                |                    |          |              |  |                           |                                     |  | М               |  |  |
|                 | 126               |                | $\vdash$           |          |              |  |                           |                                     |  |                 |  |  |
|                 | 126<br>127        |                | $\vdash$           |          |              |  |                           | _                                   |  | П               |  |  |
|                 | 128<br>129<br>130 | _              | $\vdash$           | _        | _            |  | _                         |                                     |  | T               |  |  |
|                 | 129               |                |                    |          |              |  | $\vdash$                  |                                     | <del>                                     </del> |                 |  |  |
|                 | 130               |                |                    |          |              | Н  | $\vdash$                  | <del> </del>                        | $\vdash$   | $\dashv$        |  |  |
|                 | 131               |                | $\vdash$           |          |              | Н  | -                         |                                     | -  | Н               |  |  |
|                 | 131<br>132        |                | <del> </del>       |          | -            | ┝  |                           | $\vdash$                            | ┢  | Н               |  |  |
|                 | 133               |                |                    | -        |              | -  | H                         | $\vdash$                            | $\vdash$   |                 |  |  |
| $\vdash$        | 134               | $\vdash$       | $\vdash$           |          | $\vdash$     | $\vdash$   | $\vdash$                  | $\vdash$                            | $\vdash$   | $\vdash\vdash$  |  |  |
|                 | 135               |                | $\vdash$           | -        | $\vdash$     | -  | -                         | $\vdash$                            | $\vdash$   | $\vdash$        |  |  |
|                 | 136               | -              | $\vdash$           | $\vdash$ |              | $\vdash$   | $\vdash$                  | <del>  -  </del>                    | -  | $\vdash\vdash$  |  |  |
| <u> </u>        | 130               | H              | $\vdash$           | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$                  | $\vdash$                            | $\vdash$   | $\vdash\vdash$  |  |  |
|                 | 137<br>138        |                | <del>  -</del>     | -        | -            | $\vdash$   | $\vdash$                  | $\vdash$                            | ⊢  | $\vdash\vdash$  |  |  |
|                 | 139               | -              | -                  | ├        | -            | ├  | <del>-</del>              | $\vdash$                            | <del> </del>                                     | $\vdash\vdash$  |  |  |
| <del> </del>    | 140               |                | $\vdash$           | <u> </u> | $\vdash$     |  | ├                         | $\vdash$                            | ⊢  | $\vdash\vdash$  |  |  |
|                 |                   | <u> </u>       | ├                  | <u> </u> | <del> </del> | ⊢  | $\vdash$                  | $\vdash$                            | ⊢  | $\vdash \vdash$ |  |  |
|                 | 141               |                |                    |          | <del> </del> | <u> </u>   | H                         | $\vdash$                            | ├  | $\vdash\vdash$  |  |  |
|                 | 142               | <b>—</b>       | $\vdash$           | $\vdash$ | $\vdash$     | <u> </u>   | <u> </u>                  | $\vdash$                            | <del> </del>                                     | $\vdash\vdash$  |  |  |
|                 | 143               |                | $\vdash$           | <u> </u> | $\vdash$     | <u> </u>   | <u> </u>                  | $\vdash$                            | ├  | Щ               |  |  |
|                 | 144               | Щ,             |                    | <u> </u> |              | L_   | L                         | <u> </u>                            | <u> </u>   | Щ               |  |  |
|                 | 145               | $\blacksquare$ | <u> </u>           | <u> </u> | <u> </u>     | L_   | $\sqcup$                  | _                                   | ldash  |                 |  |  |
|                 | 146               | Щ              | L                  | <u></u>  | <u>L</u>     | L  |                           | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $ldsymbol{f eta}$                                | Щ               |  |  |
| لـــــــا       | 147               |                | <u> </u>           | _        | L            | L  | L                         | $oxed{oxed}$                        |  | Ш               |  |  |
| لـــــا         | 148               |                | <u> </u>           | L        | L.           |  |                           | oxdot                               |  | Ш               |  |  |
|                 | 149               |                | $oxedsymbol{oxed}$ | L        | L            | $oldsymbol{ol}}}}}}}}}}}}}}}}$ | $\Box$                    |                                     | $oxedsymbol{oxed}$                               | Ш               |  |  |
|                 | 150               |                |                    |          |              |  |                           |                                     |  |                 |  |  |
|                 |                   |                |                    |          |              |  |                           | _                                   |  |                 |  |  |